author index

Abdel Aziz, E. 415
Abidi, C. 255
Agnese, A. M. 171
Aguinagalde, I. 165
Aiello, A. 37, 521
Aikman, K. 637
Aimi, N. 273
Ainouche, A. 405
Ateya, A. 415
Ayer, S. W. 465

Barata, L. E. S. 181
Baur, A. 603
Baur, B. 603
Bean, A. 591
Bergman, D. 637
Bergquist, P. L. 221
Bergquist, P. R. 221
Berhow, M. A. 237
Bevalot, F. 805
Bierner, M. W. 795
Blatt, C. T. T. 89
Blunden, G. 71, 427
Borkosky, S. A. 659
Bowden, B. F. 461
Bowers, M. D. 207
Brain, P. 379
Brenac, P. 157
Brewer, D. 465
Brown, K. S. Jr 181

Cabrera, J. L. 171
Cafferty, S. 173
Cambie, R. C. 461
Campbell, W. E. 589, 591
Casabuono, A. C. 247
Cassels, B. K. 725
Catalán, C. A. N. 659
Cegarra, J. A. 71
Chen, C.-T. 211
Chuah, C. H. 189
Ciminiello, P. 105
Clabaugh, J. P. 119
Cole, M. D. 65, 83
Collins, F. W. 647
Conn, B. J. 65
Curtis, J. M. 465
Czygan, F.-C. 423, 749

Da Costa, F. B. 585
De Feo, V. 463
De Nysschen, A. M. 243
De Simone, F. 463
de Tommasi, N. 353
De Vivar, A. R. 175
Del Castillo Cotillo, H. C. 463
Del Rio, R. E. 43
Dellar, J. E. 65, 83
Deutsch, L. 793
Deyun, K. 87
Díaz de Astarloa, J. M. 115
Díaz-Lifante, Z. 165
Dinan, L. N. 177, 803
Dodd, R. S. 325, 341
Dörr, M. 481, 799, 801
Dowd, P. F. 647
Duda, C. M. 793
Duffey, S. S. 611

Ebel, R. 1
Ebinger, J. 637
El Oualidi, J. 261
El-Shazly, A. 415
Elbrächter, M. 1
Esteban, J. L. 571
Eyles, R. F. 763

Fattorusso, E. 37, 105, 521
Fentzloff, C. 783
Fielder, D. A. 647
Fleming, C. 509
Fong, C. H. 237
Fritz, R. S. 719
Fröberg, L. 603
Fromard, F. 341

García-Vallejos, M. C. 319
Gardner, J. P. A. 763
Gil-Pinilla, M. 571
Girault, J. P. 177
Giulietti, A. M. 577
Goh, S. H. 189
Gomez, L. D. P. 481
Gonnet, J.-F. 447
Goralka, R. J. L. 13, 93
Gray, A. I. 87
Gray, R. D. 221
Green, J. C. 793
Greenham, J. 173
Greinwald, R. 405, 423, 749
Grobler, J. P. 757
Grosso, N. R. 319
Guzmán, C. A. 319

Hagerman, A. E. 25
Hamzah, A. S. 273

Hartley, T. G. 87, 805
Hasegawa, S. 237
Heidrich, P. 783
Henriques, S. A. 181
Herz, W. 585
Hesbacher, S. 603
Hui, C.-F. 211
Huon, A. 405
Hwang, S.-Y. 357

Ibañez, C. 499

Janicsak, G. 71
Jansen, R. K. 735
Jean, C.-T. 211
Jewers, K. 427
Jiménez-Osornio, F. M. V. Z. J. 195
Jordana, J. 485
Joseph-Nathan, P. 659
Julkunen-Tiitto, R. 25
Juntheikki, M.-R. 25, 595
Juste, J. 499

Käss, E. 365
Kaul, P. N. 627
Keusgen, M. 465
Kilgore, K. 735
Kilpatrick, C. W. 309
Kim, J. H. 795
Kirchner, M. 1
Knott, K. E. 119
Kokkalou, E. 255
Kramer, B. 275
Kumamoto, J. 195

Lafont, R. 177, 803
Lajis, N. H. J. 273
Lamarque, A. L. 319
Langenheim, J. H. 13, 93
Lebot, V. 775
Lee, S. J. 795
Lee, S.-C. 211
Levesque, J. 775
Li, H. 547
Lin, Q. 795
Lindroth, R. L. 357
Luís Pérez De Paz, P. 571
Lundgren, L. N. 145
Lynch, J. D. 793

Mabry, T. J. 795
Machordom, A. 499
MacKenzie, L. 221
McLean, W. F. H. 427
McPeak, D. 793
Madden, J. L. 547
Maestri, D. M. 319
Maffei, M. 53, 531
Magno, S. 105
Maier, M. S. 115
Mallavarapu, G. R. 627
Markham, K. R. 469
Martin, A. 261
Maselli, S. 165
Maslin, B. R. 379
Máthé, I. Jr 71
Matsui, M. 299
Mayden, R. L. 119
Menna, M. 37, 521
Miller, J. D. 647
Molinatorres, J. 43
Muyard, F. 805

Nagahama, S. 49
Neuffer, B. 393
Nieto, D. A. 175
Norton, R. A. 647
Nouga Bissoue, A. 805

Ooi, L. E. 189
Orians, C. M. 719

Pan, Y. J. 461
Pande, A. 763
Pansini, M. 37, 105
Patel, A. 71
Patrício, M. C. B. 577
Peña, R. C. 725
Pérez, A.-L. 175
Pérez, M. G. 115
Pérez-Alonso, M. J. 319, 571
Piedrafita, J. 485
Pomilio, A. B. 247
Potts, B. M. 547
Proksch, P. 1, 603
Puech, S. 261

Rafii, Z. A. 325, 341
Rajeswara Rao, B. R. 627
Ramesh, S. 627
Ramirez-Chavez, E. 43
Ramos, I. 353
Rascol, J. P. 261
Rastrelli, L. 353
Regnier, A. 805
Reyes-Chilpa, R. 749

Reynolds, T. 347
Ricci, C. V. 577
Roccatagliata, A. J. 115
Roche, B. M. 719
Roitman, J. N. 479
Ross, J. H. 423, 749
Rychlik, L. 291

Salatino, A. 89, 577
Salatino, M. L. F. 89, 577
Salgado-Garciglia, R. 43
Santamour, F. S. Jr 145
Sarg, T. 415
Sarker, S. D. 177, 803
Sauvaire, Y. 157
Savchenko, T. 803
Schneider, M. J. 793
Schumaker, M. A. 93
Schutte, A. L. 243
Seigler, D. 637
Seldes, A. M. 115
Skoula, M. 255
Smith, B. E. 71
Smith, R. I. L. 469
Starha, R. 85
Stout, M. J. 611

Tajima, M. 49
Takenaka, O. 299
Tanaka, T. 299
Trigo, J. R. 181
Turner, S. J. 509
Tyrrell, J. V. 221

Valant-Vetschera, K. M. 435, 477
Vallejo, C. G. 571
Van der Bank, F. H. 275, 757
Van der Bank, H. 135
Van der Bank, M. 135
Van Heerden, F. R. 243
Van Wyk, B.-E. 135, 243
Vaquette, J. 805
Velasco-Negueruela, A. 319, 571
Vichnewski, W. 585
Vidales, P. 175
Villaseñor, J. L. 175

Wasser, C. 195
Waterman, P. G. 65, 83, 87, 805
Wear, R. G. 763
Webby, R. F. 469
Weiss, B. 1
Wen, J. 735
Whiting, P. 803
Williams, C. A. 173
Wink, M. 365, 415, 783
Witte, L. 405, 415, 423, 749
Wójcik, A. M. 291
Wójcik, J. M. 291
Wollenweber, E. 435, 477, 479, 481, 799, 801
Wood, R. M. 119
Workman, J. S. 611
Workman, K. V. 611

Yang, M.-H. 71
Yong, H. S. 189
Yu, C.-M. 465
Yuan, Z.-X. 71

Zaheer, K. 509
Zalewska, H. 291
Zavarin, E. 325
Zygadlo, J. A. 319

subject index

BIOCHEMICAL SYSTEMATICS AND ECOLOGY

INDEX TO VOLUME 24 (1996)

abietane diterpene, *Dauphinea brevilabra* 83
Acacia subgenus Phyllodineae, serology 379
Acanthopagrus schlegeli, genetic variation 211
3-acetyl deoxynivalenol, corn 647
4-acetyl-benzoxazolin-2-one, corn 647
Achillea
  A. biebersteinii 435
  A. clusiana, leaf exudate flavonoids 477
  A. ochroleuca 435
  subsect. *Filipendulinae*, leaf exudate flavonoids 435
Acmadenia sheilae, coumarins 589
Acmella oppositifolia, olefinic alkamides 43
Acronychia, alkaloids and coumarins 805
Adesmia
  A. bicolor hydrophilic components 171
  A. incana hydrophilic components 171
aerophobin-2, *Verongia aerophoba* defense metabolites 1
aeroplysinin, *Verongia aerophoba* 1
affinin, *Heliopsis longipes* and *Acmella oppositifolia* 43
aflatoxin, corn 647
Agathosma barosmaefolia, quinoline alkaloids 591
Alces alces, tannin-binding proteins comparison 595
alcohols, *Festuca* 247
aldehydes, *Festuca* 247
alectoronic acid, *Tephromela atra* 603
alkaloids
  Acronychia 805
  Agathosma barosmaefolia 591
  Brongniartia 749
  Croton ruizianus 463
  Cynoglossum species 415
  Gymnocalycium 85
  Harpalyce 749
  Ithomiinae butterflies 181
  Lupinus tassilicus 405
  Senecio species 175
  Templetonia incana 423
  Verongia aerophoba 1
  Zanthoxylum nitidum 87
alkanes
  foliar wax biogeographic variation 341
  leaf wax 53, 531
allelopathic activity, *Chenopodium ambrosioides* 195
allozymes
  Acanthopagrus schlegeli 211
  Ethoestoma 119
  European shrews 291
  Rousettus egyptiacus 499

Aloe
A. scabrifolia chemotaxonomy 347
A. turkanensis, chemotaxonomy 347
Amaranthus hypochondriacus, *Chenopodium ambrosioides* allelopathic activity 195
antifungal activity, *Westringia* cinnamate esters 65
antimicrobial abietane diterpene, *Dauphinea brevilabra* 83
Aplidium nordmani, low molecular weight metabolites 521
Aplysina
A. fulva secondary metabolic composition 105
A. insularis secondary metabolic composition 105
arvicoline rodents, salivary amylase locus duplication 309
ascaridole, *Chenopodium ambrosioides* 195
ascidians, low molecular weight metabolites 521
aspen, foliar chemistry 357
atranorin, *Tephromela atra* 603
aucubin, *Plantago patagonica* 207
Avicennia germinans, foliar wax biogeographic variation 341
bacteria, *Verongia aerophoba* defense metabolites 1
Bacterocera carambolae, *Spathiphyllum cannaefolium* attractants 189
barks, *Melicope* flavonoids 461
betaines
Capparaceae 427
Labiatae 71
Betula, platyphylloside inheritance 145
biodiversity, *Brassica insularis* 165
biogeography
foliar waxes 341
snubnose darters 119
biomass yield, rose-scented geranium 627
birch, *Microtus oeconomus* tannin-binding proteins 25
black pine, foliar terpenoids 325
black porgy, genetic variation 211
book reviews
Chemical Ecology of Insects 2 483
DNA Cloning 2. Expression Systems 91
Gene probes 1: A Practical Approach 593
Identification of Essential Oil Components by Gas Chromatography/Mass Spectroscopy 594
Monosaccharides: Their Chemistry and Their Roles in Natural Products 91
Botrillus leachii, low molecular weight metabolites 521
Brassica insularis, biodiversity 165
brominated isoxazoline alkaloids, *Verongia aerophoba* 1
brominated metabolites, *Aplysina* 105
Brongniartia, alkaloids 749
brown frogs, phylogeny 299
Bruna dels Pirineus, genetic study 485
Bryum algens, chemotypes 469
buffalo, genetic diversity 757
butterflies, pyrrolizidine alkaloids 181
cacti, *Gymnocalycium* alkaloids 85
caffeic acid esters, *Teucrium mideltense* 261
California bay tree
foliar monoterpenoid variation 13
leaf development 93

Capparaceae, quarternary ammonium compounds 427
Capsella bursa-pastoris, RAPD analysis 393
carotenoids, *Aplidium nordmani* 521
carvacrol, *Minthostachys verticillata* 319
carvone, *Minthostachys verticillata* 319
catalpol
    Plantago patagonica 207
    Westringia cinnamate esters 65
cattle, *Bruna dels Pirineus* genetic study 485
Centaurea montana, flavonoid glycoside variations 447
cerebroside
    Botrillus leachii 521
    Microsphaeropsis olivacea 465
Chattonella antiqua, phylogeny 221
chemical variation, *Tephromela atra* 603
chemotaxonomy
    Achillea clusiana leaf exudate flavonoids 477
    Acmadenia sheilae 589
    Acmella oppositifolia 43
    Adesmia hydrophilic components 171
    Agathosma barosmaefolia quinoline alkaloids 591
    Aloe species 347
    Aplysina secondary metabolic composition 105
    Brongniartia alkaloids 749
    Capparaceae 427
    Chenopodium pallidicaule ecdysteroids 353
    Cruciferae leaf wax *n*-alkanes 531
    Cyclopia 243
    Eucalyptus subgenus *Symphyomyrtus* 547
    Festuca non-polar constituents 247
    Gomphrena haageana ecdysteroids 177
    Gramineae leaf wax alkanes 53
    Gymnocalycium alkaloids 85
    Harpalyce alkaloids 749
    Heliopsis longipes 43
    Hibiscus liliastrum mangiferin and iso-mangiferin 173
    Labiatae betaines 71
    Leguminosae leaf wax *n*-alkanes 531
    lupins 405
    Micromeria volatiles 571
    Ourisia phytoecdysteroids 803
    Senecio species 175
    Syngonanthus flavonoids 577
    Tabebuia caraiba flavonoids 89
    Templetonia incana quinolizidine alkaloids 423
    Trigonella sterols and steroidal sapogenins 157
    Umbelliferae leaf wax *n*-alkanes 531
    Westringia cinnamate esters 65
    Zanthoxylum nitidum alkaloids 87
chemotypes
    Bryum algens 469
    Minthostachys verticillata 319

Chenopodium
C. ambrosioides allelopathic activity ... 195
C. pallidicaule ecdysteroids ... 353
chloroplast DNA restriction site data, *Symplocarpus* ... 735
cholestan-3ß-ol, *Encope emarginata* ... 115
cholest-4-en-3-one, *Encope emarginata* ... 115
Chromolaena odorata, leaf exudate ... 479
cinnamate esters, *Westringia* ... 65
2'-cinnamoylsalicortin, heritability ... 719
Cistus subgenus *Papeda*, flavonoids ... 237
Cladosporium cucumerinum, *Westringia* cinnamate esters ... 65
climatic change, rose-scented geranium biomass yield and terpenoid composition ... 627
clonal variation, quaking aspen foliar chemistry ... 357
α-collatolic acid, *Tephromela atra* ... 603
colonization history, *Capsella bursa-pastoris* ... 393
Conocarpus erectus, foliar wax biogeographic variation ... 341
conspecificity, *Piper methysticum* and *P. wichmannii* ... 775
corn, 4-acetyl-benzoxazolin-2-one and diferuloylputrescine ... 647
coumarins
Acmadenia sheilae ... 589
Acronychia ... 805
Viguiera ... 585
Croton ruizianus, proaporphine alkaloids ... 463
Cruciferae, leaf wax *n*-alkanes ... 531
cyanogenesis, vascular plants ... 637
Cyclopia, leaf phenolic compounds ... 243
Cynoglossum
C. amabile pyrrolizidine alkaloids ... 415
C. officinale pyrrolizidine alkaloids ... 415
Cyphomyrus discorhynchus ... 275
cytochrome *b*
brown frogs ... 299
sea eagles mitochondrial DNA phylogeny ... 783
Dauphinea brevilabra, antimicrobial abietane diterpene ... 83
deer herbivory
California bay tree ... 93
Umbellularia californica foliar monoterpenoid variation ... 13
defense metabolites, *Verongia aerophoba* ... 1
demosponge, chemistry ... 37
diarylheptanoid glucoside, *Betula* inheritance ... 145
dienone, *Verongia aerophoba* ... 1
diferuloylputrescine, corn ... 647
3,4-dimethoxybenzyl alcohol, *Spathiphyllum cannaefolium* fruitfly attractants ... 189
6-O-(E-3,4-dimethoxycinnamoyl)-catalpol, *Westringia* ... 65
trans-3,4-dimethoxycinnamyl acetate ... 189
trans-3,4-dimethoxycinnamyl alcohol, *Spathiphyllum cannaefolium* fruitfly attractants ... 189
diterpene hydrocarbons, *Thujopsis dolabrata* var. *dolabrata* leaf oil ... 49
diterpenes
Dauphinea brevilabra ... 83
Viguiera ... 585
DNA phylogeny, sea eagles ... 783
DNA restriction site data, *Symplocarpus* ... 735
13-*epi*-dolabradiene, *Thujopsis dolabrata* var. *dolabrata* leaf oil ... 49

Dysidea fragilis, chemistry 37
ecdysteroids
Chenopodium pallidicaule seeds 353
Gomphrena haageana 177
Egyptian rousette, allozyme variation 499
Encope emarginata, sterols 115
enzymes, *Brassica insularis* biodiversity 165
epilupinine, lupins 405
essential oils
Lavandula stoechas L. ssp. *stoechas* 255
Minthostachys verticillata 319
rose-scented geranium 627
Etheostoma, biogeography 119
Eucalyptus subgenus *Symphyomyrtus*, volatile leaf oils 547
eugenol, *Spathiphyllum cannaefolium* fruitfly attractants 189
European shrews, allozyme differentiation 291
evolution
Leguminosae 365
Pinus nigra foliar terpenoids 325
sea eagles mitochondrial DNA phylogeny 783
Symplocarpus chloroplast DNA restriction site data 735
Festuca
F. argentina, non-polar constituents 247
F. hieronymi, non-polar constituents 247
flavanones, *Cyclopia* 243
flavonoid glycoside variations, *Centaurea montana* 447
flavonoids
Achillea clusiana 477
Achillea subsect. *Filipendulinae* 435
Bryum algens chemotypes 469
Cistus subgenus *Papeda* 237
Godmania aesculifolia 481
Hedyotis herbacea 273
Kitaibelia vitifolia 801
Melicope species 461
Mirabilis viscosa 799
Syngonanthus 577
Tabebuia caraiba 89
Teucrium mideltense 261
foliar chemistry, quaking aspen 357
foliar monoterpenoid variation, California bay tree 13
foliar waxes, biogeographic variation 341
fruitfly attractants, *Spathiphyllum cannaefolium* 189
fungus, *Microsphaeropsis olivacea* cerebroside 465
furocoumarins, *Acronychia* 805
furoquinoline alkaloids, *Acronychia* 805
gene flow, *Perna canaliculus* 763
genetic differentiation, brown frogs 299
genetic distance
Acanthopagrus schlegeli 211
Brassica insularis 165
European shrews 291
mormyriform fish 275

Virgilia oroboides 135
genetic diversity
African buffalo 757
black pine foliar terpenoids 325
genetic variation
Acanthopagrus schlegeli 211
arvicoline rodents 309
Bruna dels Pirineus cattle 485
Perna canaliculus 763
potato cyst nematodes 509
Rousettus egyptiacus 499
Salix sericea phenolic glycosides 719
Virgilia oroboides 135
germinability, *Brassica insularis* biodiversity 165
gibberella ear rot-resistant corn hybrid 647
Globodera
G. pallida genetic variation 509
G. rostochiensis genetic variation 509
glycosphingolipid, *Botrillus leachii* 521
Gochnatiinae, secondary metabolites 659
Godmania aesculifolia, exudate flavonoids 481
Gomphrena haageana, ecdysteroids 177
Gramineae, leaf wax alkanes 53
greenshell mussel, genetic variation 763
Gymnocalycium, alkaloids 85
Haliaeetus, mitochondrial DNA phylogeny 783
Harpalyce, alkaloids 749
Hedyotis herbacea 273
Heliopsis longipes, olefinic alkamides 43
herbivory
California bay tree 93
Umbellularia californica foliar monoterpenoid variation 13
heritability
Centaurea montana flavonoid glycoside variations 447
Salix sericea phenolic glycosides 719
Heterosigma carterae, phylogeny 221
heterozygosity
Acanthopagrus schlegeli 211
European shrews 291
Virgilia oroboides 135
Hibiscus liliastrum, mangiferin and iso-mangiferin 173
Hippopotamyrus 275
honeybush tea, *Cyclopia* phenolic compounds 243
hydrocarbons, *Festuca* 247
hydrophilic components, *Adesmia* 171
6-hydroxyluteolin, *Syngonanthus* 577
3ß-hydroxy sterol, *Encope emarginata* 115
Hymenoxys brachyactis, sesquiterpene lactones 795
inheritance, *Betula* platyphylloside 145
insect toxicity, 4-ABOA 647
intermedine, Ithomiinae butterflies 181
iridoid glycosides
Pedicularis 793

Plantago patagonica 207
iso-mangiferin, *Hibiscus liliastrum* 173
N-isobutyl-dodeca-2E,4E,8Z,10E-tetraenamide 43
isofistularin-3, *Verongia aerophoba* defense metabolites 1
isozymes, *Brassica insularis* 165
Ithomiinae butterflies, pyrrolizidine alkaloids 181
ketones, *Festuca* 247
Kitaibelia vitifolia, exudate flavonoids 801
Labiatae, betaines 71
Laguncularia racemosa, foliar wax biogeographic variation 341
Lavandula stoechas L. ssp. *stoechas*, essential oil 255
leaf development, California bay tree 93
leaf extracts, *Virgilia oroboides* genetic variation 135
leaf exudate
Aloe chemotaxonomy 347
Chromolaena odorata 479
leaf exudate flavonoids
Achillea clusiana 477
Achillea subsect. *Filipendulinae* 435
Godmania aesculifolia 481
Kitaibelia vitifolia 801
Mirabilis viscosa 799
leaf oils
Eucalyptus subgenus *Symphyomyrtus* 547
Thujopsis dolabrata var. *dolabrata* diterpene hydrocarbons 49
leaf volatiles
Eucalyptus subgenus *Symphyomyrtus* 547
Minthostachys verticillata 319
leaf wax alkanes
Cruciferae 531
Gramineae 53
leaves
Croton ruizianus alkaloids 463
Cyclopia phenolic compounds 243
Hibiscus liliastrum mangiferin and iso-mangiferin 173
Leguminosae
leaf wax *n*-alkanes 531
molecular evolution 365
lichen compounds, *Tephromela atra* chemical variation 603
limonoid, *Citrus* subgenus *Papeda* 237
lipoxygenase, *Lycopersicon esculentum* protein induction 611
Lupinus tassilicus, seed alkaloids 405
Lycopersicon esculentum, protein induction 611
lycopsamine, Ithomiinae butterflies 181
mangiferin, *Hibiscus liliastrum* 173
marine fungus, cerebroside 465
marionol, *Chromolaena odorata* 479
Melicope
M. simplex flavonoids 461
M. ternata flavonoids 461
p-methoxybenzyl alcohol, *Spathiphyllum cannaefolium* fruitfly attractants 189
6-O-(Z-4-methoxycinnamoyl)-catalpol, *Westringia* 65
methyl eugenol, *Spathiphyllum cannaefolium* fruitfly attractants 189

N-2-methylbutyldeca-2E,6Z,8E-trienamide 43
Micromeria, volatiles 571
Microsphaeropsis olivacea, cerebroside 465
Microtus oeconomus, salivary tannin-binding proteins 25
Minthostachys verticillata, essential oil variability 319
Mirabilis viscosa, exudate flavonoids 799
mitochondrial cytochrome *b*, brown frogs 299
mitochondrial DNA phylogeny, sea eagles 783
molecular evolution, Leguminosae 365
monoterpenes
    Micromeria volatiles 571
    Pinus nigra foliar terpenoids 325
monoterpenoids
    California bay tree 93
    Eucalyptus subgenus *Symphyomyrtus* 547
moose saliva, tannin-binding proteins comparison 595
mormyriform fish, phylogeny 275
mosses, *Bryum algens* chemotypes 469
multiflorine, lupins 405
mycotoxin biosynthesis, corn 647
Neomys, allozyme differentiation 291
olefinic alkamides
    Acmella oppositifolia 43
    Heliopsis longipes 43
ontogeny, *Lycopersicon esculentum* protein induction 611
Ourisia, phytoecdysteroids 803
Pedicularis, iridoid glycosides 793
Perna canaliculus, genetic variation 763
peroxidase, *Lycopersicon esculentum* protein induction 611
Phaseolus acutifolius, *Chenopodium ambrosioides* allelopathic activity 195
phenolic glycosides, *Salix sericea* variation 719
phenolics
    Aloe leaf exudate 347
    Cyclopia leaves 243
phylogeny
    brown frogs 299
    Chattonella antiqua 221
    Heterosigma carterae 221
    Leguminosae 365
    mormyriform fish 275
    Sophora 725
    Symplocarpus 735
phytoecdysteroids, *Ourisia* 803
Pinus nigra, foliar terpenoids 325
Piper
    P. methysticum, *P. wichmannii* conspecificity 775
    P. wichmannii, *Piper methysticum* conspecificity 775
Plantago patagonica, iridoid glycosides 207
platyphylloside inheritance, *Betula* 145
poliumoside, *Teucrium mideltense* 261
polymorphism, *Acanthopagrus schlegeli* 211
polyphenol oxidase, *Lycopersicon esculentum* protein induction 611

Populus tremuloides, foliar chemistry 357
potato cyst nematodes, genetic variation 509
proaporphine alkaloids, *Croton ruizianus* 463
proline-rich proteins, *Microtus oeconomus* 25
protein induction, *Lycopersicon esculentum* 611
pulegone, *Minthostachys verticillata* 319
pyrrolizidine alkaloids
    Cynoglossum species 415
    Ithomiinae butterflies 181
    Senecio species 175
quaking aspen, foliar chemistry 357
quarternary ammonium compounds, Capparaceae 427
quercetagetin methyl ether, *Chromolaena odorata* 479
quinoline alkaloids, *Agathosma barosmaefolia* 591
quinolizidine alkaloids, *Templetonia incana* 423
Rana, phylogenetic relationship 299
RAPD analysis, *Capsella bursa-pastoris* 393
rbc L-sequences, Leguminosae molecular evolution 365
Rhizophora, foliar wax biogeographic variation 341
rimuene, *Thujopsis dolabrata* var. *dolabrata* leaf oil 49
rodents, salivary amylase locus duplication 309
root vole, salivary tannin-binding proteins 25
rosa-5,15-diene, *Thujopsis dolabrata* var. *dolabrata* leaf oil 49
rose-scented geranium, biomass yield and terpenoid composition 627
rough-seeded lupins, seed alkaloids 405
Rousettus egyptiacus, allozyme variation 499
salicortin, heritability 719
saliva, moose tannin-binding proteins comparison 595
salivary amylase, arvicoline rodents 309
salivary tannin-binding proteins, root vole 25
Salix sericea, phenolic glycosides genetic variation 719
sapogenins, *Trigonella* 157
sea eagles, mitochondrial DNA phylogeny 783
secondary metabolites, Gochnatiinae 659
seed alkaloids
    Lupinus tassilicus 405
    Sophora phylogeny 725
seed bank, *Brassica insularis* biodiversity 165
seeds, *Chenopodium pallidicaule* ecdysteroids 353
Senecio
    S. callosus pyrrolizidine alkaloids 175
    S. jacalensis pyrrolizidine alkaloids 175
serology, *Acacia* subgenus Phyllodineae 379
sesquiterpene lactones, *Hymenoxys brachyactis* 795
sesquiterpenes
    Dysidea fragilis chemistry 37
    Pinus nigra foliar terpenoids 325
    Viguiera 585
sesquiterpenoids, *Eucalyptus* subgenus *Symphyomyrtus* 547
shrews, allozyme differentiation 291
snubnose darters, biogeography 119
Sophora, phylogeny 725
Sorex, allozyme differentiation 291

Spathiphyllum cannaefolium, fruitfly attractants 189
sponges
Dysidea fragilis chemistry 37
Verongia aerophoba defense metabolites 1
Verongida 105
stem exudate flavonoids
Kitaibelia vitifolia 801
Mirabilis viscosa 799
steroidal sapogenins, *Trigonella* 157
sterols
Encope emarginata 115
Trigonella 157
Styela partita, low molecular weight metabolites 521
Symplocarpus, chloroplast DNA restriction site data 735
Syncerus caffer, genetic diversity 757
Syngonanthus, flavonoids 577
Tabebuia caraiba, flavonoids 89
tannin-binding proteins
Microtus oeconomus 25
moose saliva comparison 595
Templetonia incana, alkaloids 423
Tephromela atra, chemical variation 603
terpenoids
Pinus nigra foliar terpenoids 325
rose-scented geranium 627
tetrahydrocytisine derivatives, *Templetonia incana* 423
5,6,7,8-tetramethoxycoumarin, *Acmadenia sheilae* 589
Teucrium mideltense 261
Thujopsis dolabrata var. *dolabrata*, diterpene hydrocarbons 49
thymol, *Minthostachys verticillata* 319
tomatoes, protein induction 611
Trigonella, sterols and steroidal sapogenins 157
triterpenoids
Festuca 247
foliar wax biogeographic variation 341
Umbelliferae, leaf wax *n*-alkanes 531
Umbellularia californica
foliar monoterpenoid variation 13
leaf development 93
V4 domain SSU rDNA sequences, *Chattonella antiqua* 221
Verongia aerophoba, defense metabolites 1
Verongida sponges, chemistry 105
Viguiera
V. aspilloides 585
V. robusta 585
Virgilia oroboides, genetic variation 135
volatile leaf oils, *Eucalyptus* subgenus *Symphyomyrtus* 547
volatiles, *Micromeria* 571
Warrior snubnose darter 119
Westringia
W. fruticosa cinnamate esters 65
W. viminalis cinnamate esters 65
willows, phenolic glycosides genetic variation 719

xanthones, *Cyclopia* 243
Zanthoxylum nitidum, alkaloids 87